

WE CLAIM:

- 1 1. A multiple unit dosage form comprising multiple units, each unit
2 comprising: at least one core having an outer surface;
3 a first coating layer surrounding at least a portion of the outer surface of the core
4 and having an outer surface, the coating layer including one or both of one or more active
5 pharmaceutical ingredients and one or more rate controlling polymers; and
6 an outer layer, the outer layer comprising a material that is one or both of elastic
7 and compressible.
- 1 2. The multiple unit dosage form of claim 1, wherein the core includes the one
2 or more rate controlling polymers.
- 1 3. The multiple unit dosage form of claim 1, wherein the core includes the one
2 or more active pharmaceutical ingredients.
- 1 4. The multiple unit dosage form of claim 1, wherein the core includes one or
2 more of sugar, a non-pareil seed, microcrystalline cellulose, celphere, sand silicon dioxide,
3 glass, plastic, polystyrene, hydroxypropyl methylcellulose.
- 1 5. The multiple unit dosage form of claim 4, wherein the sugar comprises one
2 or more of glucose, mannitol, lactose, xylitol, dextrose, and sucrose.
- 1 6. The multiple unit dosage form of claim 1, wherein the core comprises one
2 or more of an insoluble material, a soluble material, and a swellable material.
- 1 7. The multiple unit dosage form of claim 1, wherein the rate controlling
2 polymer comprises one or more of cellulosic polymers, methacrylic acid polymers, and
3 waxes.
- 1 8. The multiple unit dosage form of claim 1, wherein the rate controlling
2 polymer comprises one or more of ethylcellulose, hydroxypropyl methylcellulose,
3 hydroxypropyl cellulose, methylcellulose, carboxymethylcellulose,
4 hydroxymethylcellulose, and hydroxyethylcellulose, hydroxypropylmethyl phthalate,
5 cellulose acetate phthalate, and cellulose acetate trimellitate.
- 1 9. The multiple unit dosage form of claim 1, wherein the one or more active
2 pharmaceutical ingredients comprises one or more of antidepressants, antidiabetics,

3 antiulcers, analgesics, antihypertensives, antibiotics, antipsychotics, antineoplastics,
4 antimuscarinics, diuretics, antimigraine agents, antivirals, anti-inflammatory agents,
5 sedatives, antihistaminics, antiparasitic agents, antiepileptics and lipid lowering agents.

1 10. The multiple unit dosage form of claim 1, wherein the one or more active
2 pharmaceutical ingredients comprise one or more of enalapril, captopril, benazepril,
3 lisinopril, ranitidine, famotidine, ranitidine bismuth citrate, diltiazem, propranolol,
4 verapamil, nifedipine, acyclovir, ciprofloxacin, simvastatin, atorvastatin, lovastatin,
5 venlafaxine, citalopram, paroxetine, selegiline, midazolam, fluoxetine, acarbose,
6 buspirone, nimesulide, captopril, nabumetone, glimepiride, glipizide, etodolac, nefazodone
7 and their pharmaceutically acceptable salts.

1 11. The multiple unit dosage form of claim 1, wherein the one or more active
2 pharmaceutical ingredients comprises one or both of glipizide and venlafaxine or their
3 salts.

1 12. The multiple unit dosage form of claim 1, wherein the core includes the
2 rate controlling polymer and the active pharmaceutical ingredient.

1 13. The multiple unit dosage form of claim 1, wherein the first coating layer
2 further includes the active pharmaceutical ingredient.

1 14. The multiple unit dosage form of claim 1, wherein the first coating layer
2 includes the one or more active pharmaceutical ingredients.

1 15. The multiple unit dosage form of claim 1, further comprising one or more
2 additional layers, wherein the additional layers are positioned between (a) one or more of
3 the core and the first coating layer and (b) surrounding at least a portion of the first coating
4 layer,

5 wherein the one or more additional layers comprise one or more of a seal coat, a
6 film forming layer, a rate controlling polymer, and an active pharmaceutical ingredient.

1 16. The multiple unit dosage form of claim 15, wherein the seal coat comprises
2 one or more of hydroxypropyl methylcellulose, polyvinyl pyrrolidone, and methacrylic
3 acid copolymers.

1 17. The multiple unit dosage form of claim 15, wherein the film forming layer
2 includes one or more of ethyl cellulose, hydroxypropyl methylcellulose, hydroxypropyl
3 cellulose, methyl cellulose, carboxymethylcellulose, hydroxymethylcellulose,
4 hydroxyethylcellulose, hydroxypropyl methyl phthalate, cellulose acetate, cellulose
5 acetate trimellitate, cellulose acetate phthalate, waxes, polyethylene glycol, and
6 methacrylic acid polymers.

1 18. The multiple unit dosage form of claim 1, wherein the material in the outer
2 layer comprises one or more wax materials.

1 19. The multiple unit dosage form of claim 18, wherein the wax material
2 comprises one or more polyethylene glycols (PEGs).

1 20. The multiple unit dosage form of claim 19, wherein the one or more
2 polyethylene glycols (PEGs) differ by molecular weight.

1 21. The multiple unit dosage form of claim 20, wherein the polyethylene glycol
2 (PEG) comprises one or more of PEG 600, PEG 4000, PEG 6000, PEG 8000, and PEG
3 20000.

1 22. The multiple unit dosage form of claim 19, wherein the waxy material
2 comprises from about 1% to about 15% by weight of the total dosage form weight.

1 23. The multiple unit dosage form of claim 19, wherein the waxy material
2 comprises from about 1% to about 100% by weight of the weight of the core and the first
3 coating layer.

1 24. The multiple unit dosage form of claim 19, wherein the waxy material is
2 applied to each unit as a solution, suspension, dispersion, or hot melt technique.

1 25. The multiple unit dosage form of claim 24, wherein the solution,
2 suspension, or dispersion is made using a solvent,

1 wherein the solvent comprises one or more of methylene chloride, isopropyl
2 alcohol, acetone, methanol, ethanol, and water.

1 26. The multiple unit dosage form of claim 1, wherein the active
2 pharmaceutical ingredient comprises glipizide and is in one or both of the core and the
3 first coating layer.

1 27. The multiple unit dosage form of claim 26, further comprising a buffering
2 agent with the glipizide in one or both of the core and the first coating layer.

1 28. The multiple unit dosage form of claim 27, wherein the buffering agent
2 comprises one or more of dibasic sodium phosphate, sodium ascorbate, meglumine,
3 sodium citrate trimethanolamine, sodium hydroxide, potassium hydroxide, calcium
4 hydroxide, magnesium hydroxide, ammonia, tertiary sodium phosphate, diethanolamine,
5 ethylenediamine, and L-lysine.

1 29. The multiple unit dosage form of claim 1, wherein one or more of the core
2 and the first coating layer includes one or more pharmaceutically acceptable excipients.

1 30. The multiple unit dosage form of claim 29, wherein the pharmaceutically
2 acceptable excipients includes surfactants, binders, diluents, disintegrants, lubricants,
3 glidants, plasticizers, stabilizers, and coloring agents.

1 31. The multiple unit dosage form of claim 30, wherein the surfactants include
2 one or more of a non-ionic surfactant, an ionic surfactant, mono fatty acid esters of
3 polyoxyethylene sorbitan, polyoxyethylene (20) sorbitan monooleate (Tween 80),
4 polyoxyethylene (20) sorbitan monostearate (Tween 60), polyoxyethylene (20) sorbitan
5 monolaurate (Tween 20), an anionic surfactant, sodium lauryl sulfate, polyoxyethylene
6 castor oil derivative, polyoxyethyleneglycerol triiricinoleate castor oil, polyoxyl 35 castor
7 oil, Cremophor EL, and Vitamin E TPGS, d-alpha-tocopheryl polyethylene glycol 1000
8 succinate, polyethoxylated fatty acids and their derivatives, polyethylene glycol 400
9 distearate, polyethylene glycol - 20 dioleate, polyethylene glycol 4-150 mono dilaurate,
10 polyethylene glycol -20 glyceryl stearate, alcohol - oil transesterification products,
11 polyethylene glycol - 6 corn oil, polyglycerized fatty acids, polyglyceryl - 6 pentaoleate,
12 propylene glycol fatty acid esters, propylene glycol monocaprylate, mono and
13 diglycerides, glyceryl ricinoleate, sterol and sterol derivatives, sorbitan fatty acid esters
14 and their derivatives, polyethylene glycol - 20 sorbitan monooleate and sorbitan
15 monolaurate, polyethylene glycol alkyl ether or phenols, polyethylene glycol - 20 cetyl
16 ether, polyethylene glycol - 10 - 100 nonyl phenol, sugar esters, sucrose monopalmitate,

17 polyoxyethylene – polyoxypropylene block copolymers, poloxamer, sodium caproate,
18 sodium glycocholate, soy lecithin, sodium stearyl fumarate, propylene glycol alginate,
19 octyl sulfosuccinate disodium, and palmitoyl carnitine.

1 32. The multiple unit dosage form of claim 30, wherein the binders includes
2 one or more of methyl cellulose, hydroxypropyl cellulose, hydroxypropyl methylcellulose,
3 polyvinylpyrrolidone, gelatin, gum arabic, ethyl cellulose, polyvinyl alcohol, pullulan,
4 pregelatinized starch, agar, tragacanth, sodium alginate, and propylene glycol.

1 33. The multiple unit dosage form of claim 30, wherein the diluents include
2 one or more of calcium carbonate, calcium phosphate-dibasic, calcium phosphate-tribasic,
3 calcium sulfate, microcrystalline cellulose, silicified microcrystalline cellulose, cellulose
4 powdered, dextrates, dextrans, dextrose excipients, fructose, kaolin, lactitol, lactose,
5 mannitol, sorbitol, starch, starch pregelatinized, sucrose, sugar compressible, and sugar
6 confectioners.

1 34. The multiple unit dosage form of claim 30, wherein the disintegrants
2 include one or more of starch, croscarmellose, crospovidone, and sodium starch glycolate.

1 35. The multiple unit dosage form of claim 30, wherein the lubricants and
2 glidants include one or more of colloidal anhydrous silica, stearic acid, magnesium
3 stearate, calcium stearate, talc, hydrogenated castor oil, sucrose esters of fatty acid,
4 microcrystalline wax, yellow beeswax, and white beeswax.

1 36. The multiple unit dosage form of claim 30, wherein the plasticizers include
2 one or more of polyethylene glycol, triethyl citrate, triacetin, diethyl phthalate, and dibutyl
3 sebacate and the stabilizers include one or more of antioxidants, buffers, and acids.

1 37. The multiple unit dosage form of claim 1, wherein the dosage form
2 comprises a tablet.

1 38. The multiple unit dosage form of claim 37, wherein the tablet further
2 includes one or more pharmaceutically acceptable excipients around the individual units.

1 39. The multiple unit dosage form of claim 1, wherein the dosage form
2 comprises a capsule.

1 40. The multiple unit dosage form of claim 1, wherein the active
2 pharmaceutical ingredients comprise one or more of atorvastatin and amlodipine,
3 metformin and glipizide, simvastatin and ramipril, simvastatin and amlodipine, metformin
4 XL and glipizide XL, ramipril and atorvastatin, ramipril and amlodipine, metformin XL
5 and glimiperide, fosinopril and amlodipine.

1 41. A process for the preparation of a multiple unit dosage form, the process
2 comprising:

3 providing at least one core having an outer surface;

4 forming a coated core by applying one or more coating layers to the core such that
5 the one or more coating layers surround at least a portion of the outer surface of the core
6 or the coating layers;

7 forming an individual unit by applying a waxy material to the coated core to form a
8 wax layer;

9 combining one or more units to form a multiple unit dosage form,

10 wherein one or both of the core and the coating layers includes one or more rate
11 controlling polymers and active pharmaceutical ingredients.

1 42. The process of claim 41, further comprising applying one or both of a seal
2 layer or a film forming layer between the core and the coating layer, between the one or
3 more coating layers, and between the one or more coating layers and the wax layer.

1 43. The process of claim 41, wherein the waxy material comprises one or more
2 polyethylene glycols (PEGs) of one or more molecular weights.

1 44. The process of claim 43, wherein the polyethylene glycols (PEG) comprise
2 one or more of PEG 600, PEG 4000, PEG 6000, PEG 8000, and PEG 20000.

1 45. The process of claim 41, wherein the waxy material comprises from about
2 1% to about 15% by weight of the total dosage form weight.

1 46. The process of claim 41, wherein the waxy material comprises from about
2 1% to about 100% by weight of the weight of the core and the one or more coating layers.

1 47. The process of claim 41, wherein applying the waxy material comprises
2 applying a coating of a solid waxy material by using a hot melt technique.

1 48. The process of claim 41, wherein applying the waxy material comprises
2 applying a coating of waxy material by using as one or more of a solution, a suspension,
3 and a dispersion.

1 49. The process of claim 48, wherein the solution or the suspension is prepared
2 in a solvent.

1 50. The process of claim 49, wherein the solvent is selected from one or more
2 of methylene chloride, isopropyl alcohol, acetone, methanol, ethanol, and water.

1 51. The process of claim 41, wherein the core comprises an inert core.

1 52. The process of claim 41, wherein the core comprises one or more
2 pharmaceutically acceptable excipients.

1 53. The process of claim 41, wherein the core comprises one or more active
2 pharmaceutical ingredients.

1 54. The process of claim 41, wherein the one or more active pharmaceutical
2 ingredients comprises one or more of antidepressants, antidiabetics, antiulcers, analgesics,
3 antihypertensives, antibiotics, antipsychotics, antineoplastics, antimuscarinics, diuretics,
4 antimigraine agents, antivirals, anti-inflammatory agents, sedatives, antihistaminics,
5 antiparasitic agents, antiepileptics and lipid lowering agents.

1 55. The process of claim 41, wherein the one or more active pharmaceutical
2 ingredients comprise one or more of enalapril, captopril, benazepril, lisinopril, ranitidine,
3 famotidine, ranitidine bismuth citrate, diltiazem, propranolol, verapamil, nifedipine,
4 acyclovir, ciprofloxacin, simvastatin, atorvastatin, lovastatin, venlafaxine, citalopram,
5 paroxetine, selegiline, midazolam, fluoxetine, acarbose, buspirone, nimesulide, captopril,
6 nabumetone, glimepiride, glipizide, etodolac, nefazodone and their pharmaceutically
7 acceptable salts.

1 56. The process of claim 41, wherein the core is prepared by extrusion-
2 spheronization.

1 57. The process of claim 56, wherein the extrusion-spheronization process
2 comprises:

3 granulating an inert core material with or without other pharmaceutical excipients
4 with a binder solution to form a wet mass;
5 passing the wet mass through an extruder to form extrudates; and
6 spheronizing the extrudates.

1 58. The process of claim 41, wherein the core is prepared by granulation.

1 59. The process of claim 58, wherein the granulation process comprises wetting
2 a dry mix of core material with or without other pharmaceutical excipients with a binder
3 solution.

1 60. The process of claim 41, wherein the units are prepared by coating the
2 cores with active pharmaceutical ingredients and rate controlling polymers.

1 61. The process of claim 41, wherein the units are prepared by coating cores
2 with a first layer comprising an active pharmaceutical ingredient and a second outer layer
3 comprising a rate controlling polymer.

1 62. The process of claim 41, further comprising applying a seal coat or a film
2 forming layer between the core and the subsequent layers or between a layer comprising
3 an active pharmaceutical ingredient and a layer comprising a release rate controlling
4 polymer

1 63. The process of claim 41, wherein the rate controlling polymer comprises
2 one or more of cellulosic polymers, methacrylic acid polymers, waxes, ethylcellulose,
3 hydroxypropyl methylcellulose, hydroxypropyl cellulose, methylcellulose,
4 carboxymethylcellulose, hydroxymethylcellulose, and hydroxyethylcellulose,
5 hydroxypropylmethyl phthalate, cellulose acetate phthalate, and cellulose acetate
6 trimellitate.

1 64. The process of claim 41, wherein the active pharmaceutical ingredient
2 comprises venlafaxine.

1 65. The process of claim 41, wherein the active pharmaceutical ingredient
2 comprises glipizide.

1 66. The process of claim 41, wherein the dosage form comprises a tablet.

1 67. The process of claim 41, wherein the dosage form comprises a capsule.

1 68. A method for preparing a modified release multiple unit dosage form, the
2 method comprising:

3 providing a core having a coating, wherein one or both of the core and the coating
4 include one or more of rate controlling polymers and active pharmaceutical ingredients;
5 forming individual units by coating the coated core with a coating material that is
6 one or both of compressible and elastic; and
7 forming the dosage form by combining one or more individual units.

1 69. The method of claim 68, wherein combining one or more individual units
2 comprises compressing the individual units into a tablet

1 70. The method of claim 68, wherein combining one or more individual units
2 comprises filling the individual units into a capsule or sachet.

1 71. The method of claim 68, wherein the coating material comprises a waxy
2 material.

1 72. The method of claim 68, wherein the coating material comprises a
2 polyethylene glycol.

1 73. A method of treating a medical condition, the method comprising
2 administering a multiple unit dosage form for oral ingestion, each unit comprising a core,
3 one or more layers surrounding the core, and an outer layer, wherein
4 the core comprises one or more of a pharmaceutically acceptable excipients, an
5 active pharmaceutical ingredient, and a rate controlling polymer,
6 the one or more layers comprises one or more of a pharmaceutically acceptable
7 excipient, an active pharmaceutical ingredient, a rate controlling polymer, a sealing layer,
8 and a film forming layer, and
9 the outer layer comprises a material that is one or both of compressible and elastic
10 to partially or completely absorb a force exerted in forming the multiple unit dosage form
11 by combining the units.

1 74. The method of claim 73, wherein the material of the outer layer comprises
2 a waxy material.

1 75. The method of claim 74, wherein the waxy material comprises one or more
2 polyethylene glycols of different molecular weights.

1 76. The method of claim 73, wherein the dosage form comprises a tablet.

1 77. The method of claim 73, wherein the dosage form comprises a capsule.

1 78. A multiple unit dosage form comprising multiple units, each unit
2 comprising:
3 at least one core having an outer surface and comprising one or more one active
4 pharmaceutical ingredients; and
5 a coating layer surrounding at least a portion of the outer surface of the core,
6 having an outer surface and comprising a waxy material.

1 79. The multiple unit dosage form of claim 78, wherein the waxy material
2 comprises one or more polyethylene glycols of different molecular weights.

1 80. The multiple unit dosage form of claim 78, wherein the dosage form
2 comprises a tablet.

1 81. The multiple unit dosage form of claim 78, wherein the dosage form
2 comprises a capsule.

1 82. A combination drug, multiple unit dosage form comprising:
2 first units; and
3 second units,
4 each first unit comprising at least one core having an outer surface, a first
5 coating layer surrounding at least a portion of the outer surface of the core and
6 having an outer surface, and an outer layer surrounding at least a portion of an
7 outer surface of the first coating layer, the first coating layer including a first active
8 pharmaceutical ingredient,
9 each second unit comprising at least one core having an outer surface, a
10 first coating layer surrounding at least a portion of the outer surface of the core and
11 having an outer surface, and an outer layer surrounding at least a portion of an
12 outer surface of the first coating layer, the first coating layer including a second
13 active pharmaceutical ingredient,

14 wherein one or both of the cores and the coating layers comprise a rate
15 controlling polymer, and
16 one or both of the outer layers comprise a waxy material,.

1 83. The combination drug, multiple unit dosage form of claim 82, wherein the
2 waxy material comprises one or more polyethylene glycols.

1 84. The combination drug, multiple unit dosage form of claim 82, wherein the
2 dosage form comprises a tablet.

1 84. The combination drug, multiple unit dosage form of claim 82, wherein the
2 dosage form comprises a capsule.

1 85. A multiple unit dosage form comprising multiple units, each unit
2 comprising:
3 at least one core having an outer surface;
4 a first coating layer surrounding at least a portion of the outer surface of the core
5 and having an outer surface, the coating layer including glipizide or its pharmaceutically
6 acceptable salt and optionally one or more rate controlling polymers.

1 86. The multiple unit dosage form of claim 85, wherein the pharmaceutically
2 acceptable salt comprises one or more of mineral acid salts, organic acid salts, and
3 organosulphonic acid salts.

1 87. The multiple unit dosage form of claim 85, wherein the core includes one
2 or more of sugar, a non-pareil seed, microcrystalline cellulose, celphere, sand silicon
3 dioxide, glass, plastic, polystyrene, hydroxypropyl methylcellulose.

1 88. The multiple unit dosage form of claim 87, wherein the sugar comprises
2 one or more of glucose, mannitol, lactose, xylitol, dextrose, and sucrose.

1 89. The multiple unit dosage form of claim 85, wherein the core comprises one
2 or more of an insoluble material, a soluble material, and a swellable material.

1 90. The multiple unit dosage form of claim 85, wherein the rate controlling
2 polymer comprises one or more of cellulosic polymers, methacrylic acid polymers, waxes,
3 ethylcellulose, hydroxypropyl methylcellulose, hydroxypropyl cellulose, methylcellulose,

4 carboxymethylcellulose, hydroxymethylcellulose, and hydroxyethylcellulose,
5 hydroxypropylmethyl phthalate, cellulose acetate phthalate, and cellulose acetate
6 trimellitate.

1 91. The multiple unit dosage form of claim 85, wherein the core includes rate
2 controlling polymer and glipizide.

1 92. The multiple unit dosage form of claim 85, further comprising one or more
2 additional layers, wherein the additional layers are positioned between (a) one or more of
3 the core and the first coating layer and (b) surrounding at least a portion of the first coating
4 layer,

5 wherein the one or more additional layers comprise one or more of a seal coat, a
6 film forming layer, a rate controlling polymer, and an active pharmaceutical ingredient.

1 93. The multiple unit dosage form of claim 92, wherein the seal coat comprises
2 one or more of hydroxypropyl methylcellulose, polyvinyl pyrrolidone, and methacrylic
3 acid copolymers and the film forming layer comprises one or more of ethyl cellulose,
4 hydroxypropyl methylcellulose, hydroxypropyl cellulose, methyl cellulose,
5 carboxymethylcellulose, hydroxymethylcellulose, hydroxyethylcellulose, hydroxypropyl
6 methyl phthalate, cellulose acetate, cellulose acetate trimellitate, cellulose acetate
7 phthalate, waxes, polyethylene glycol, and methacrylic acid polymers.

1 94. The multiple unit dosage form of claim 85, further comprising an outer
2 layer, the outer layer comprising a material that is one or both of elastic and compressible.

1 95. The multiple unit dosage form of claim 94, wherein the material in the
2 outer layer comprises one or more wax materials.

1 96. The multiple unit dosage form of claim 95, wherein the wax material
2 comprises one or more polyethylene glycols (PEGs).

1 97. The multiple unit dosage form of claim 85, further comprising a buffering
2 agent with the glipizide in the first coating layer.

1 98. The multiple unit dosage form 97, wherein the buffering agent comprises
2 one or more of dibasic sodium phosphate, sodium ascorbate, meglumine, sodium citrate
3 trimethanolamine, sodium hydroxide, potassium hydroxide, calcium hydroxide,

4 magnesium hydroxide, ammonia, tertiary sodium phosphate, diethanolamine,
5 ethylenediamine, and L-lysine.

1 99. The multiple unit dosage form of claim 85, wherein the dosage form
2 comprises a tablet.

1 100. The multiple unit dosage form of claim 85, wherein the dosage form
2 comprises a capsule.

1 101. A modified release multiple unit system comprising units of glipizide,
2 wherein the units comprise:
3 an inert core;
4 a drug layer surrounding the inert core, the drug layer comprising glipizide; and
5 a rate controlling polymer layer surrounding the drug layer.

1 102. The modified release multiple unit system of claim 101, wherein the system
2 comprises a tablet.

1 103. The modified release multiple unit system of claim 101, wherein the system
2 comprises a capsule.

1 104. A modified release multiple unit system comprising units of glipizide
2 wherein the units comprise:
3 an inert core;
4 a drug layer surrounding the inert core;
5 a rate controlling polymer layer surrounding the drug layer; and
6 a waxy layer surrounding the drug layer.

1 105. The modified release multiple unit system of claim 104, wherein the units
2 can be compressed into tablet, or filled into a capsule or a sachet; without affecting the
3 desired release characteristics of drug.

1 106. The modified release multiple unit system of claim 104, wherein the system
2 comprises a tablet.

1 107. The modified release multiple unit system of claim 104, wherein the system
2 comprises a capsule.

1 108. A modified release multiple unit system comprising units of venlafaxine,
2 wherein the units comprise:
3 an inert core;
4 a drug layer surrounding the inert core; and
5 a rate controlling polymer layer surrounding the drug layer.

1 109. The modified release multiple unit system of claim 108, wherein the system
2 comprises a tablet.

1 110. A modified release multiple unit system comprising units of venlafaxine
2 wherein the units comprise:
3 an inert core;
4 a drug layer surrounding the inert core;
5 a rate controlling polymer layer surrounding the drug layer; and
6 a waxy layer surrounding the rate controlling polymer layer.

1 111. The modified release multiple unit system of claim 110, wherein the units
2 can be compressed into tablet without affecting the desired release characteristics of drug.

1 112. A modified release multiple unit system comprising units of a drug wherein
2 the units comprise:
3 an inert core;
4 a drug layer surrounding the inert core;
5 a rate controlling polymer layer surrounding the drug layer; and
6 a waxy layer surrounding the rate controlling polymer layer.

1 113. The modified release multiple unit system of claim 112, wherein the units
2 can be compressed into tablet, or filled in capsule or sachet; without affecting the desired
3 release characteristics of drug.

1 114. A process for the preparation of a modified release multiple unit system of
2 a drug, the process comprising the steps of:
3 coating inert pellets with a drug and rate controlling polymer layer;
4 coating with a waxy layer;
5 optionally blending with pharmaceutically acceptable excipients;
6 compressing into a tablet, or filling into a capsule or a sachet of suitable size.

1 115. A process for the preparation of a modified release multiple unit system of
2 drug, the process comprising the steps of:
3 coating inert pellets with a drug and rate controlling polymer layer;
4 coating with a waxy layer;
5 optionally blending with pharmaceutically acceptable excipients;
6 compressing into tablet of suitable size.

1 116. The process of claim 115, wherein the drug comprises venlafaxine or a
2 pharmaceutically acceptable salt.

1 117. A process for the preparation of modified release multiple unit system of
2 drug comprising the steps of:
3 coating drug containing cores with a rate controlling polymer layer;
4 coating the rate controlling polymer layer with a waxy layer;
5 optionally blending with pharmaceutically acceptable excipients; and
6 compressing into tablet, or filling into capsule or sachet of suitable size.